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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,324	04/21/2004	Sang-Ho Shin	252079US2	4226

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OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

MILLER, BRANDON J

ART UNIT	PAPER NUMBER
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2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 10/828,324	Applicant(s) SHIN ET AL.	
	Examiner Brandon J. Miller	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10/16/2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-8,11-15 and 18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4-8,11-15 and 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/20/2006 has been entered.

Response to Amendment

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5-6, 12, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim (US 6,370,519 B1).

Regarding claim 1 Kim teaches an electronic directory of phone numbers (see col. 1, lines 55-62). Kim teaches a plurality of graphic icons saved in hierarchical structures (see col. 3, lines 65-67 and col. 4, lines 1-21, icons ranked one above another relate to hierarchical structure). Kim teaches a plurality of phone numbers respectively linked to the plurality of graphic icons on a one-to-one basis (see col. 4, lines 1-17). Kim teaches wherein the plurality of graphic icons form a graphic map, and wherein the graphic map comprises a community

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configured by the icons (see col. 3, lines 53-65 and FIG. 3, arrangement comprising a group of icons which allow user navigation relates to map comprising a community configured by icons).

Regarding claim 5 Kim teaches a mobile terminal comprising an electronic directory of phone numbers (see col. 1, lines 55-62 and col. 2, lines 40-63). Kim teaches a plurality of graphic icons saved in hierarchical structures (see col. 3, lines 65-67 and col. 4, lines 1-21, icons ranked one above another relate to hierarchical structure). Kim teaches a plurality of phone number respectively linked to the plurality of graphic icons on a one-to-one basis (see col. 4, lines 1-17). Kim teaches controlling and managing the electronic directory (see col. 1, lines 56-67 and col. 2, lines 1-8). Kim teaches wherein the plurality of graphic icons form a graphic map, and wherein the graphic map comprises a community configured by the icons (see col. 3, lines 53-65 and FIG. 3, arrangement comprising a group of icons which allow user navigation relates to map comprising a community configured by icons).

Regarding claim 6 Kim teaches controlling means that includes a registration processor for registering a desired phone number, and a search processor for searching for a desired phone number (see col. 2, lines 66-67 and col. 3, lines 1-19).

Regarding claim 12 Kim teaches a memory having a plurality of icons (see col. 4, lines 1-21).

Regarding claim 15 Kim teaches an electronic directory of phone numbers (see col. 1, lines 55-62). Kim teaches a plurality of symbols saved in hierarchical structures (see col. 3, lines 65-67 and col. 4, lines 1-21, symbols ranked one above another relate to hierarchical structure). Kim teaches a plurality of phone numbers respectively linked to the plurality of symbols on a one-to-one basis (see col. 4, lines 1-17). Kim teaches wherein the plurality of symbols form a

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graphic map, and wherein the graphic map comprises a community configured by the symbols (see col. 3, lines 53-65 and FIG. 3, arrangement comprising a group of symbols which allow user navigation relates to map comprising a community configured by icons).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4, 7-8, 11, 13-14, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US 6,370,519 B1) in view of Smith et al. (US 6,084,951).

Regarding claim 4 Kim teaches a device as recited in claim 1 except for each of the icons is updated according to a call history based on a phone number mapped thereto. Smith does teach each of the icons is updated according to a call history based on a phone number mapped thereto (see col. 6, lines 65-67 and col. 8, lines 32-34 & 50-59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the device adapt to include each of the icons is updated according to a call history based on a phone number mapped thereto because it would allow for an improved system for storing and displaying a plurality of phone numbers so as to be easily recognized by the user.

Regarding claim 7 Kim and Smith teach a device as recited in claim 5 except for an update manager for varying a shape or a color of the graphic icon. Smith does teach an update manager for varying a shape or a color of a graphic icon (see col. 8, lines 1-10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the

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device adapt to include an update manager for varying a shape or a color of the graphic icon because it would allow for an improved system for storing and displaying a plurality of phone numbers so as to be easily recognized by the user.

Regarding claim 8 Kim and Smith teach a device as recited in claim 5 except for a download processor for downloading the graphic icon from a service provider. Kim does teach communication over a network (see col. 2, lines 53-56). Smith does teach downloading a graphic icon from a service provider (see col. 6, lines 66-67, col. 7, lines 1-3 and col. 11, lines 24-26). It would have been obvious to one of ordinary skill in the art at the time the device was made to make the invention adapt to include downloading a graphic icon from a service provider because graphical icons can be easily sent to a communication terminal with a network connection and the combination would allow for an improved system for storing and displaying a plurality of phone numbers so as to be easily recognized by the user.

Regarding claim 11 Kim and Smith teach a device as recited in claim 4 and is rejected given the same reasoning as above.

Regarding claim 13 Kim teaches a method for managing an electronic directory of phone numbers in a mobile terminal (see col. 1, lines 55-67 and col. 2, lines 1-9 & 40-63). Kim teaches linking a graphic icon with a single phone number (see col. 4, lines 1-17). Kim teaches a plurality of graphic icons saved in hierarchical structures (see col. 3, lines 65-67 and col. 4, lines 1-21, icons ranked one above another relate to hierarchical structure). Kim teaches wherein the plurality of graphic icons form a graphic map, and wherein the graphic map comprises a community configured by the icons (see col. 3, lines 53-65 and FIG. 3, arrangement comprising a group of icons which allow user navigation relates to map comprising a community configured

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by icons). Kim does not specifically teach downloading a graphic icon from a service provider. Kim does teach communication over a network (see col. 2, lines 53-56). Smith teaches downloading a graphic icon from a service provider (see col. 6, lines 66-67, col. 7, lines 1-3 and col. 11, lines 24-26). It would have been obvious to one of ordinary skill in the art at the time the device was made to make the invention adapt to include downloading a graphic icon from a service provider because graphical icons can be easily sent to a communication terminal with a network connection and the combination would allow for an improved system for storing and displaying a plurality of phone numbers so as to be easily recognized by the user.

Regarding claim 14 Kim and Smith teach a device as recited in claim 4 and is rejected given the same reasoning as above.

Regarding claim 18 Kim teaches a device as recited in claim 15 except for each of the icons is updated according to a call history based on a phone number mapped thereto. Smith does teach each of the icons is updated according to a call history based on a phone number mapped thereto (see col. 6, lines 65-67 and col. 8, lines 32-34 & 50-59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the device adapt to include each of the icons is updated according to a call history based on a phone number mapped thereto because it would allow for an improved system for storing and displaying a plurality of phone numbers so as to be easily recognized by the user.

Response to Arguments

Applicant's arguments with respect to claims 1, 4-8, 11-15, and 18 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

King et al. U.S Patent No. 7,072,683 discloses a method of enabling the display of a picture file on a cellular telephone.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon J. Miller whose telephone number is 571-272-7869. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



December 28, 2006



GEORGE ENG
SUPERVISORY PATENT EXAMINER